

SPECIFICATIONS OF COMPRESSOR

Model No: C-SBP205H38Q

Output : 6 HP



Temporary

DALIAN SANYO COMPRESSOR Co.,Ltd.

15-Mar-11

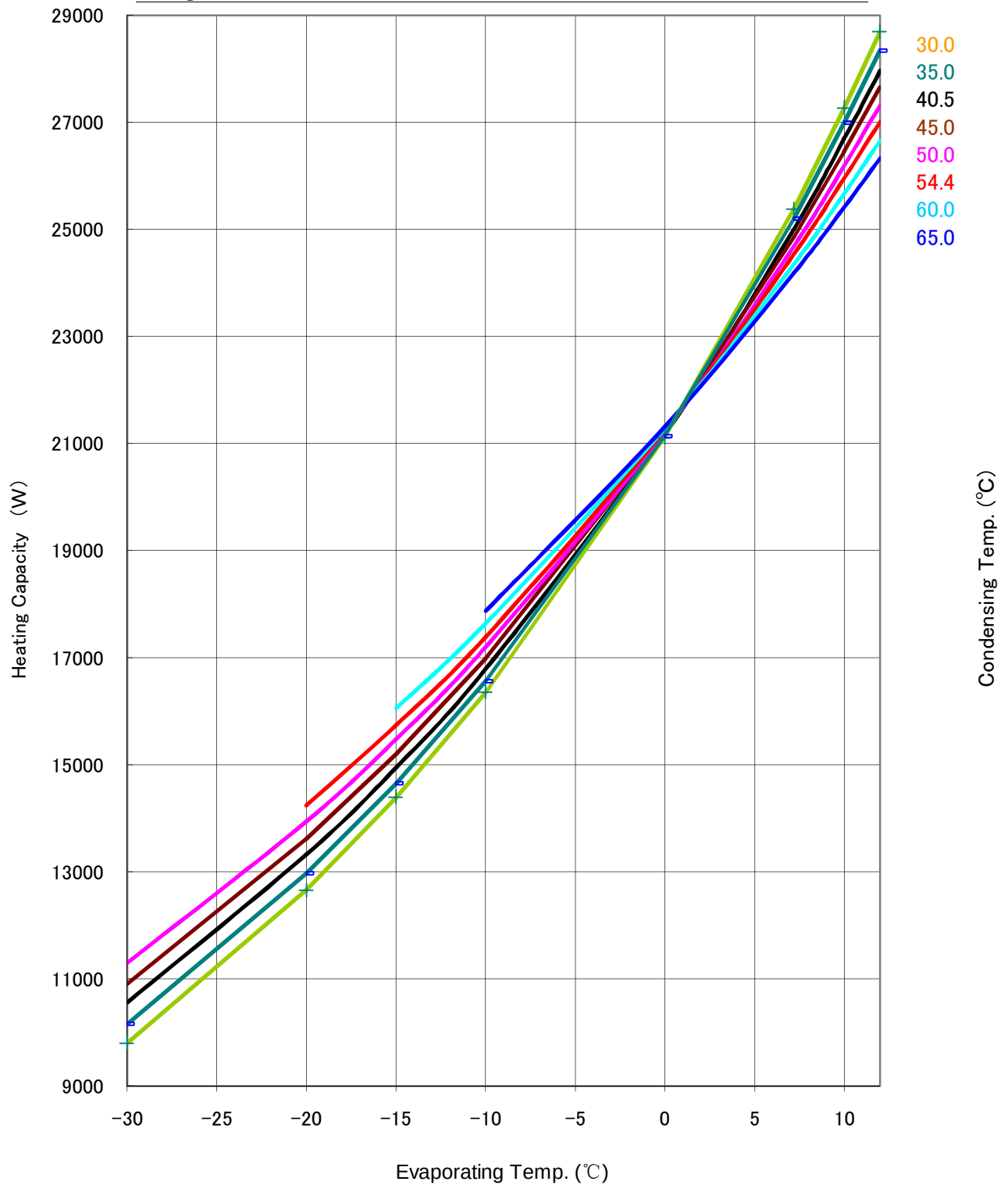
GENERAL SPECIFICATIONS

Model No:		C-SBP205H38Q		
Application				
Evaporating Temp Range	(°C)	-30.0 ~ 15.0		
Refrigerant		R410A		
Compressor Cooling		Gas Injection		
Rated Performance				
Heating Capacity	(W)	18300		
Input	(W)	5890		
Current	(A)	10.5		
Revolution	(min ⁻¹)	2900		
Sound Level	(dB(A))			
Rating Conditions				
Power Source		3-PH	50Hz	380V
Evaporating Temp	(°C)	-7		
Condensing Temp	(°C)	50		
Suction Gas Temp	(°C)	4.1		
Liquid Temp	(°C)	48		
Ambient Temp	(°C)	35.0		
Measuring Point of Sound Level				
Distance from the Compressor	(m)	1.0		
Compressor				
Design		Hermetic Scroll		
Displacement	(cm ³)	66.8		
Suction Line Connection	(Φ mm OD)	22.22		
Discharge Line Connection	(Φ mm OD)	12.7		
Oil	(ml)	1700 (FV68S)		
Mass(Incl.Oil)	(kg)	38.5		
Motor				
Type		3-PH Induction Motor(3IR)		
Pole		2		
Rated Power Source		3-PH	50Hz	380-415V
Voltage Range	(V)	342~456		
Starting Current	(A)	73		

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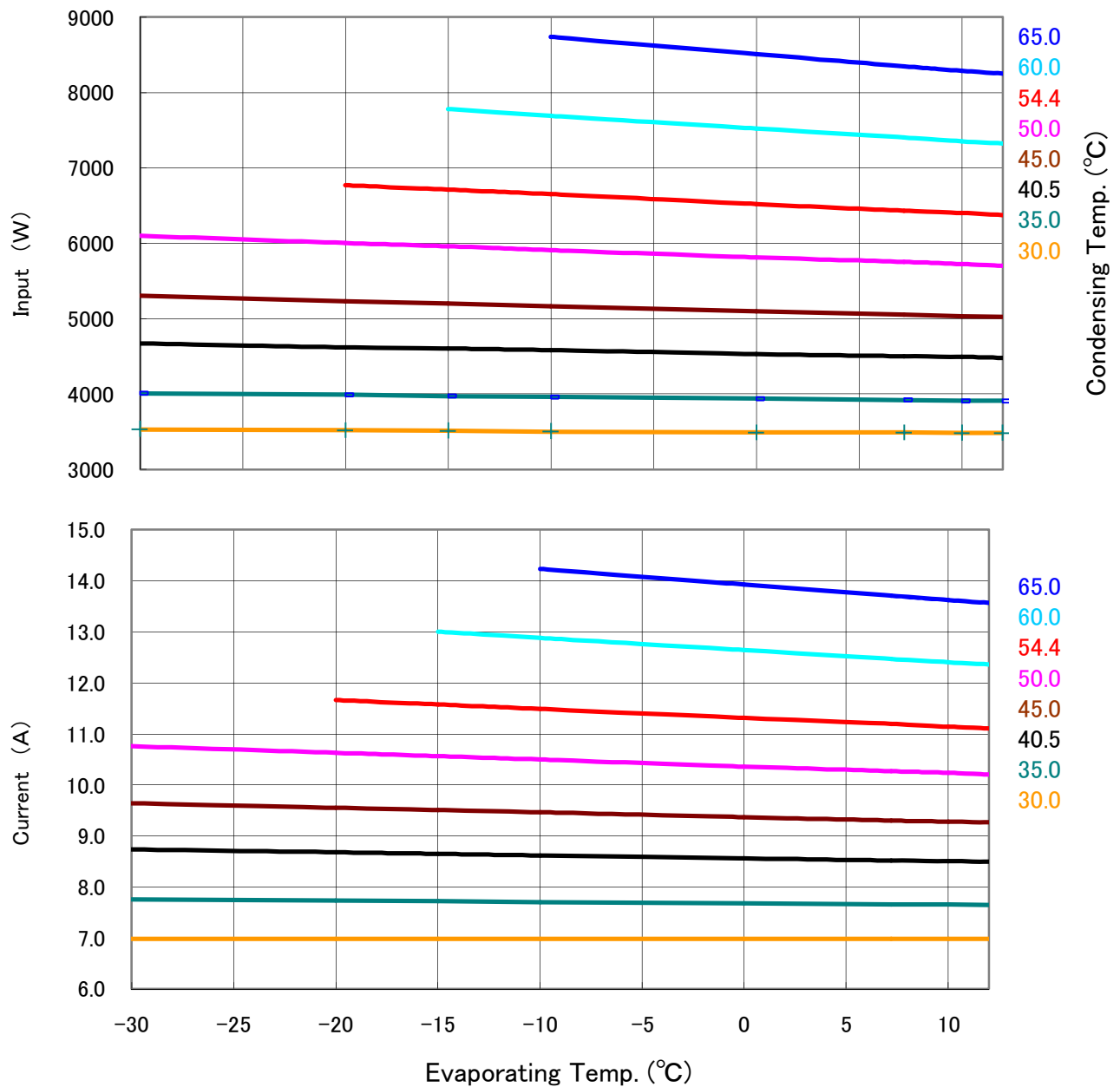
PERFORMANCE CURVE

Code No.	C-SBP205H38Q
Power Source	3-PH 50Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	2
Compressor Cooling	Gas Injection
Refrigerant	R410A



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Heating Capacity (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	9,800	12,660	14,390	16,350	21,110	25,380	27,260	28,690
	35	10,160	12,970	14,650	16,560	21,140	25,200	26,990	28,340
	40.5	10,560	13,320	14,950	16,790	21,170	25,010	26,690	27,960
	45.0	10,900	13,610	15,200	16,980	21,190	24,860	26,450	27,650
	50.0	11,300	13,940	15,480	17,200	21,220	24,690	26,180	27,310
	54.4		14,240	15,740	17,390	21,250	24,540	25,950	27,010
	60.0			16,060	17,640	21,280	24,350	25,660	26,650
	65.0				17,870	21,310	24,190	25,410	26,320

Input (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	3,530	3,520	3,510	3,500	3,490	3,490	3,480	3,480
	35	4,010	3,990	3,970	3,960	3,940	3,920	3,910	3,910
	40.5	4,670	4,620	4,600	4,580	4,530	4,500	4,490	4,480
	45.0	5,300	5,230	5,200	5,160	5,100	5,050	5,030	5,020
	50.0	6,100	6,000	5,960	5,910	5,810	5,750	5,720	5,700
	54.4		6,770	6,710	6,650	6,520	6,430	6,400	6,370
	60.0			7,780	7,690	7,520	7,400	7,350	7,320
	65.0				8,740	8,510	8,350	8,290	8,250

Current (A)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
	35	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.6
	40.5	8.7	8.7	8.6	8.6	8.6	8.5	8.5	8.5
	45.0	9.6	9.5	9.5	9.5	9.4	9.3	9.3	9.3
	50.0	10.8	10.6	10.6	10.5	10.4	10.3	10.2	10.2
	54.4		11.7	11.6	11.5	11.3	11.2	11.1	11.1
	60.0			13.0	12.9	12.6	12.5	12.4	12.4
	65.0				14.2	13.9	13.7	13.6	13.6

MassFlow(kg/H)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	106.3	143.5	174.5	213.6	316.7	411.4	452.8	484.0
	35	101.6	140.0	171.0	210.0	311.6	404.3	444.8	475.3
	40.5	96.7	136.2	167.3	206.0	306.0	396.7	436.2	465.9
	45.0	92.8	133.2	164.4	202.8	301.5	390.5	429.3	458.3
	50.0	88.6	130.0	161.2	199.3	296.5	383.8	421.7	450.1
	54.4		127.2	158.4	196.3	292.2	378.0	415.1	442.9
	60.0			154.9	192.5	286.8	370.7	406.9	434.0
	65.0				189.1	282.1	364.3	399.8	426.3

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		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	2.78	3.60	4.10	4.67	6.05	7.27	7.83	8.24
	35	2.53	3.25	3.69	4.18	5.37	6.43	6.90	7.25
	40.5	2.26	2.88	3.25	3.67	4.67	5.56	5.94	6.24
	45.0	2.06	2.60	2.92	3.29	4.15	4.92	5.26	5.51
	50.0	1.85	2.32	2.60	2.91	3.65	4.29	4.58	4.79
	54.4		2.10	2.35	2.62	3.26	3.82	4.05	4.24
	60.0			2.06	2.29	2.83	3.29	3.49	3.64
	65.0				2.04	2.50	2.90	3.07	3.19

Coefficients of Polynominal Formula

	Heating Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	2.122956E+04	2.620464E+03	4.683771E+00	3.516017E+02
C2	6.812556E+02	-6.149495E+00	-1.230157E-03	1.318885E+01
C3	-5.091915E+00	-2.302702E+01	2.123149E-02	-1.244432E+00
C4	8.774333E+00	-1.573271E-02	-3.576845E-05	2.004615E-01
C5	-4.625122E+00	5.064723E-01	4.273239E-04	-4.157807E-02
C6	9.020664E-02	1.742891E+00	1.852633E-03	2.790226E-03
C7	3.385799E-02	-8.008441E-05	-1.338895E-07	5.225351E-06
C8	-7.747939E-02	4.410920E-04	8.458961E-07	-1.206331E-03
C9	-1.423902E-03	-1.145769E-02	-1.332012E-05	5.068496E-06
C10	1.536619E-08	1.954872E-07	2.723343E-10	-1.486432E-09

Note:The polynomial coefficients subject to change without notice.

$X = C1 + C2*(S) + C3*D + C4*(S^2) + C5*(S*D) + C6*(D^2) + C7*(S^3) + C8*(D*S^2) + C9*(S*D^2) + C10*(D^3)$

X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C